FIASHTEST

[Product Name]
Porcine delta coronavirus (PDCoV) PCR Test Kit(Lyophilize

[Package Specifications]
16 T/box

[Intended Use]
This kit is suitable for the detection of Porcine delta coronavirus (PDCoV), and can be used for the auxiliary diagnosis of clinical Porcine delta coronavirus (PDCoV) infection, but it is not for confirmation of the diagnosis. This product requires operation with a fluorescence quantital PCR instrument and can achieve rapid POCT detection.

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[Contents]			
Item	Quantity	Storage	
PCR master mix	16 pcs	-20°C (Away from light)	
Instructions for use	1 pcs	- Room Temperature	
Sample buffer	16 pcs		
Swab	16 pcs		
Biohazard bag	16 pcs		

[Storage conditions and shelf life] 1. Shelf life: 24 months. 2. Production date and expiration date

[Compatible Instruments]
This test kit is compatible with FLASHTEST real-tim fluorescence PCR instrument.

[Sample] Fresh fece

- [Sample Handling]

 1. Fresh feces swab: Use a swab to collect an appropriate amount.

 2. Anal swab: Wet the swab with diluent first and then collect the sample.

 3. With the swab in the sample buffer, shake it thoroughly to fully dissolve the pathogen on the swab head into the buffer.

 4. Add 200 µL of mixed buffer to the nucleic acid extraction cartridge for extraction.

- [Specimen storage]
 Samples used for nucleic acid extraction and detection should as soon as possible.
 Samples to be tested within 24 hours can be stored at 4°C.
 Samples that can not be tested within 24 hours should be store for up to 10 days.
 Avoid repeated freezing and thawing of samples.

[Instructions for Use]

1. Add Elution

1.1 Add 20 µL of elution from magnetic bead extraction, to each PCR tube Close the lid lightly,

1.2 Shake all the liquid to the bottom of the PCR tube. Use the vortex mixer to mix the PCR tube thoroughly, for 5 seconds. After mixing, make sure all liquid is at the bottom of the PCR tube, by shaking the tube again. (optional: use a small centrifuge for 3 seconds to shift all liquids to the bottom.)

2. PCR Amplification 2.1 Set the parameters as follows:

Step	Temperature	Time	Cycle
1	55°C	3min	1
2	94°C	30s	1
3	94°C 58°C	5s 20s	×40

2.2 The reaction volume is 20µL. Fluorescence channels:				
Channel	FAM	VIC	ROX	Cy5
Target		Internal reference		PDCoV

3. Result Interpretation

Parameter	Reference Range	Result Interpretation
Internal	Ct ≤ 37 and there is a clear exponential amplification curve	Valid
Control	Ct > 37 or No Ct	Invalid
Pathogen	Ct ≤ 37 and there is a clear exponential amplification curve	Positive
	Ct > 37 or No Ct	Negative

3.2 Test Result Interpretatio

Pathogen Result	Internal Control Result	Test Result Interpretation
Positive	Valid	Pathogen Positive
Negative	Valid	Pathogen Negative
Any Result	Invalid	Test invalid, please retest

- [Test Limitations]

 1. The lest results of this kit should be comprehensively analyzed in conjunction with other relevant physical examination results and should not be used as the sole basis for diagnosis.

 2. Improper sample collection, transportation, storage, handling, and inadequate laboratory conditions may lead to inaccurate results.

 3. Other unconfirmed interferences or PCR inhibitors may lead to false negative results.

 4. Sequence variations caused by mutations or other factors in the targe gene of the virus being tested may lead to false negative results.

[Product Performanco]

1. Positive and negative control consistency: The positive and negative control included in this test kit have been tested with the company's working reference materials, and the positive and negative compliance rates are both 100%.

2. Sensitivity: limit of detection is 500 copies/mL.

3. Specificity: This assay does not cross-react with non-target pathoge samples.

4. Precision: The coefficient of variation (CV, %) of the Ct values for 10

samples.

4. Precision: The coefficient of variation (CV, %) of the Ct values for 10 consecutive tests of one strong positive sample and one weak positive sample is ≤5%.

- sample is 50%.

 [Notes]

 1. Before using a PCR kit, check the lyophilized PCR mix at the bottom of the tube is in good condition (white and clumped). Liquified lyophilized PCR mix an not be used. After opening, it should be used as soon as possible or stored away from light.

 2. This product is only for in vitro testing (for animals), All operations must strictly follow the instructions.

 3. Overloading samples may result in false negatives. Retest is recommended.

 4. Avoid bubbles in PCR tubes. Keep the tube cap firmly closed.

 5. Use disposable lips, gloves, and laboratory coats.

 6. After tests, disinfect the workbench with 10% hypochlorous acid, 75% ethanol, or UV light.

 7. All items in the kit should be treated as biowaste and handled in accordance with local laboratory regulations.